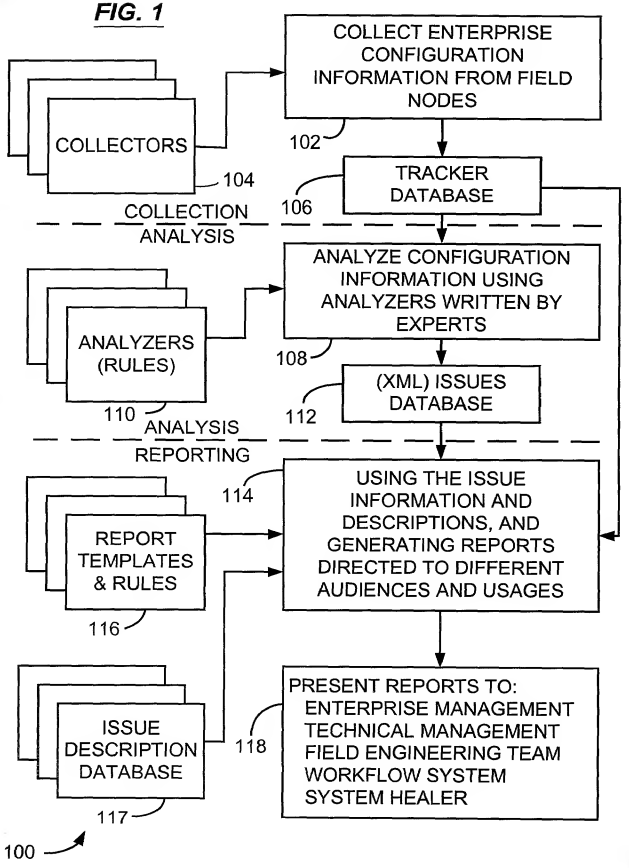
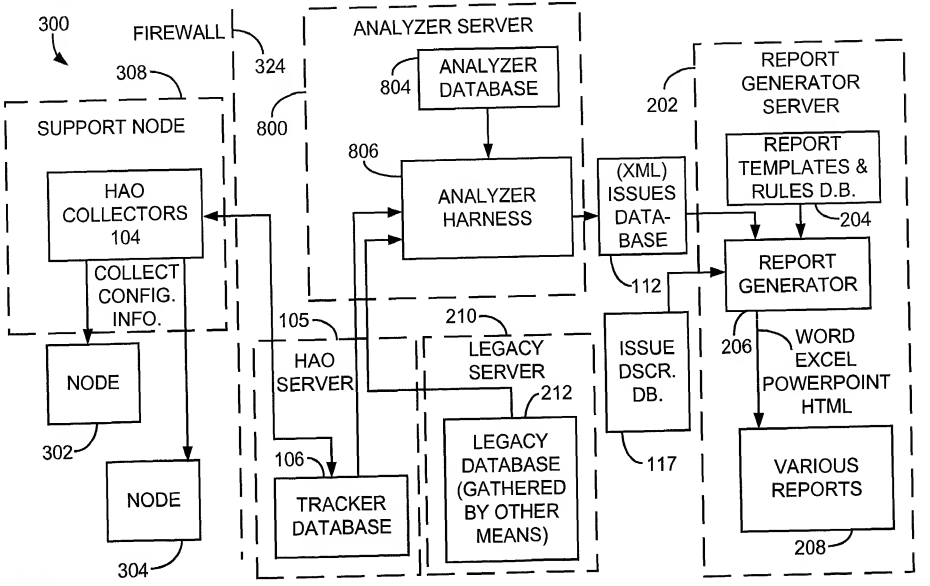
FIG. 1


COLLECT ENTERPRISE CONFIGURATION INFORMATION FROM FIELD NODES
COLLECTORS
102
104
TRACKER DATABASE
106
COLLECTION
ANALYSIS
ANALYZE CONFIGURATION INFORMATION USING ANALYZERS WRITTEN BY EXPERTS
ANALYZERS (RULES)
108
(XML) ISSUES DATABASE
110
112
ANALYSIS
REPORTING
114
USING THE ISSUE INFORMATION AND DESCRIPTIONS, AND GENERATING REPORTS DIRECTED TO DIFFERENT AUDIENCES AND USAGES
REPORT TEMPLATES & RULES
116
PRESENT REPORTS TO:
ENTERPRISE MANAGEMENT
TECHNICAL MANAGEMENT
FIELD ENGINEERING TEAM
WORKFLOW SYSTEM
SYSTEM HEALER
ISSUE DESCRIPTION DATABASE
118
117
100

TOOTSO' C96TSB60

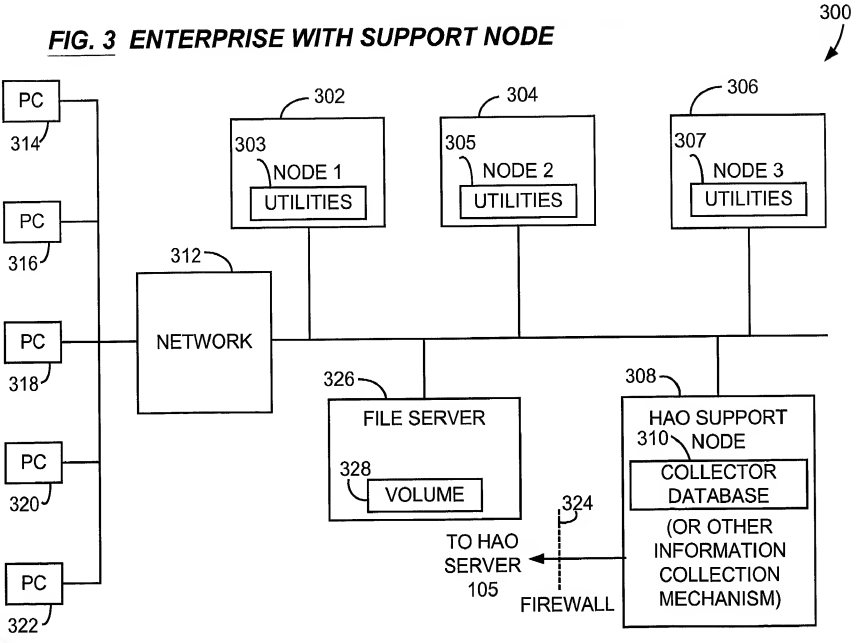
FIG. 2 ENTERPRISE LINKED TO ANALYZER AND REPORT GENERATOR



Title: A METHOD AND SYSTEM FOR AUDITING AN ENTERPRISE CONFIGURATION
Inventor(s): Peter VAN GIEL et al.
DOCKET NO.: 10015199

7001SD"E9615860

FIG. 3 ENTERPRISE WITH SUPPORT NODE



Title: A METHOD AND SYSTEM FOR AUDITING AN ENTERPRISE CONFIGURATION
Inventor(s): Peter YAN GIEL et al.
DOCKET NO.: 10015199

FIGURE 4 COLLECTOR DATABASE

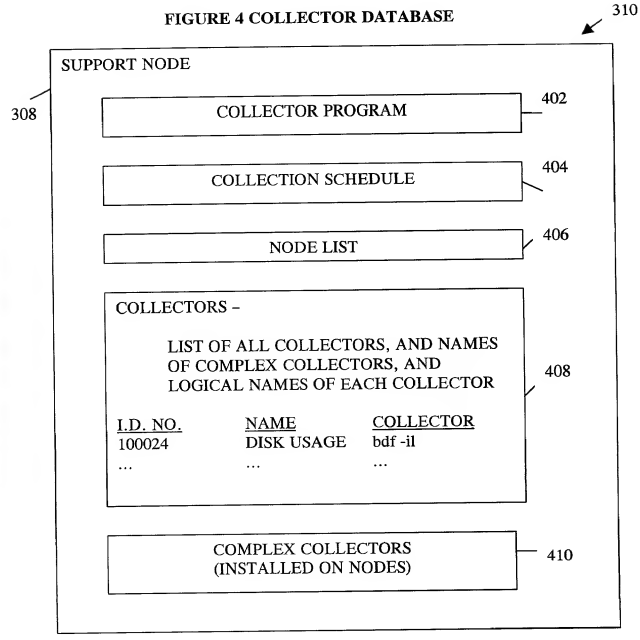


FIG. 5 COLLECTOR CREATION

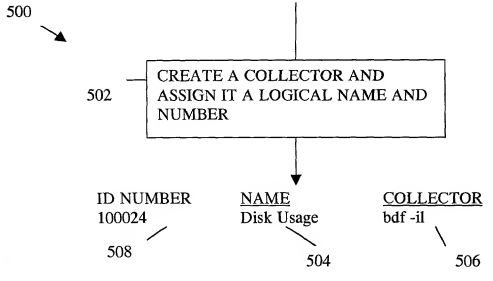


FIG. 6 COLLECTOR INSTALLATION ON ENTERPRISE

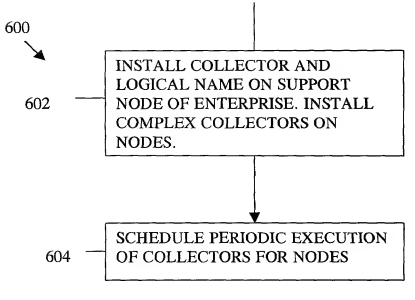


FIG. 7 ENTERPRISE COLLECTOR EXECUTION

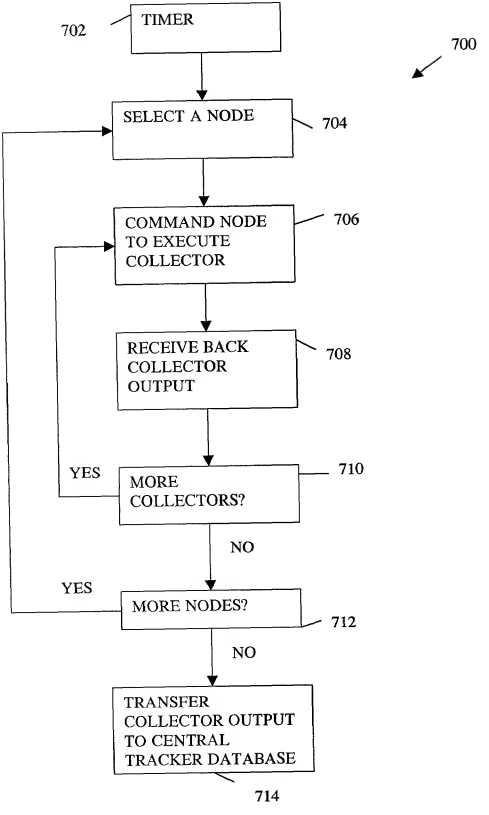


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FIG. 8 ANALYZER SERVER

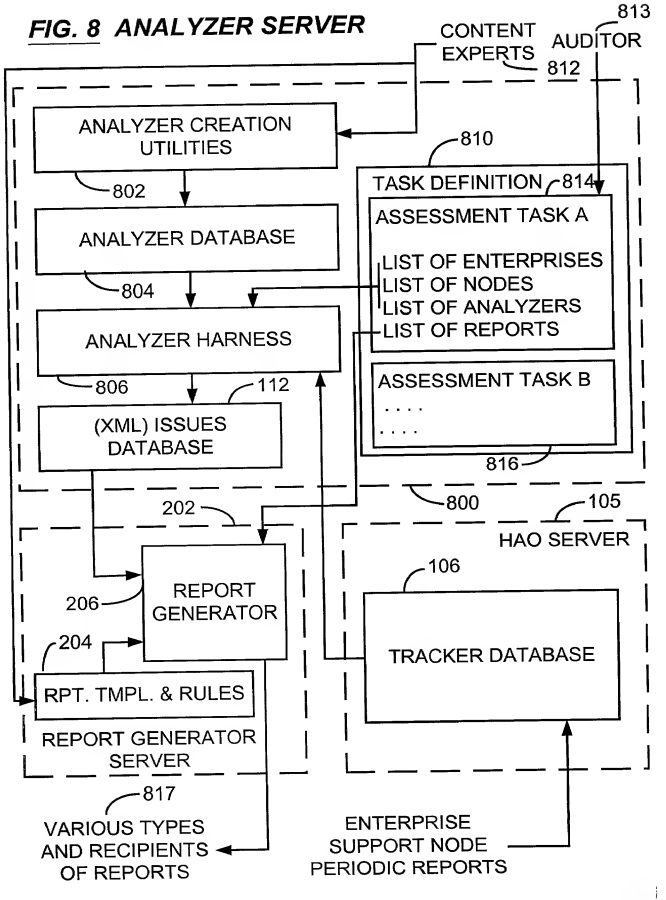


FIG. 9 TRACKER DATABASE

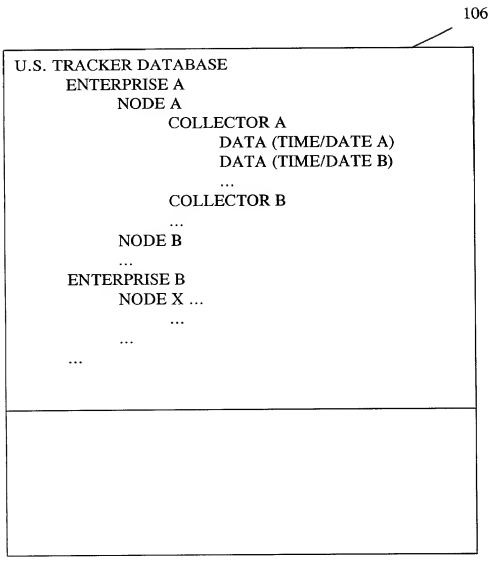
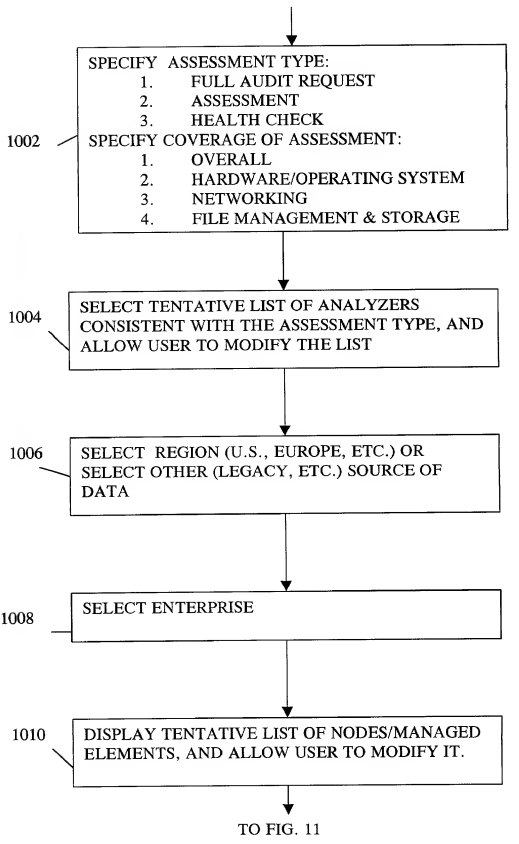


FIG. 10 TASK DEFINITION



TO FIG. 11

FIG. 11 **REPORT DEFINITION**

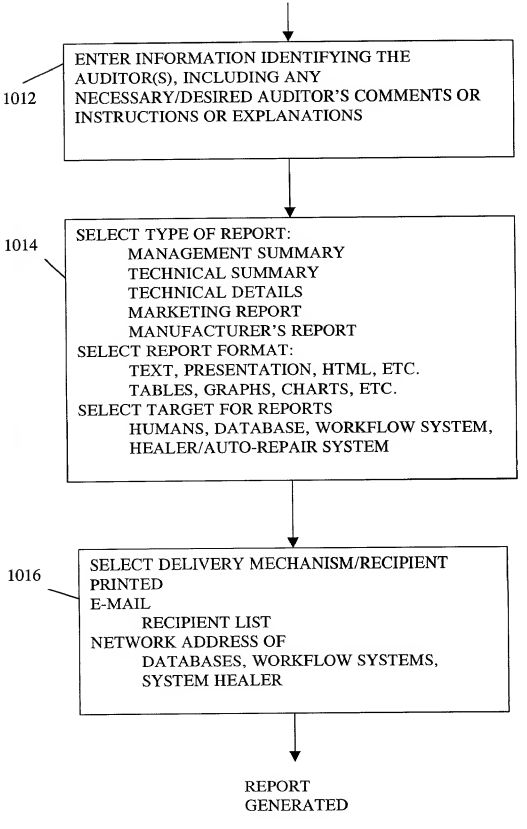


FIG. 12 ANALYZER CREATION

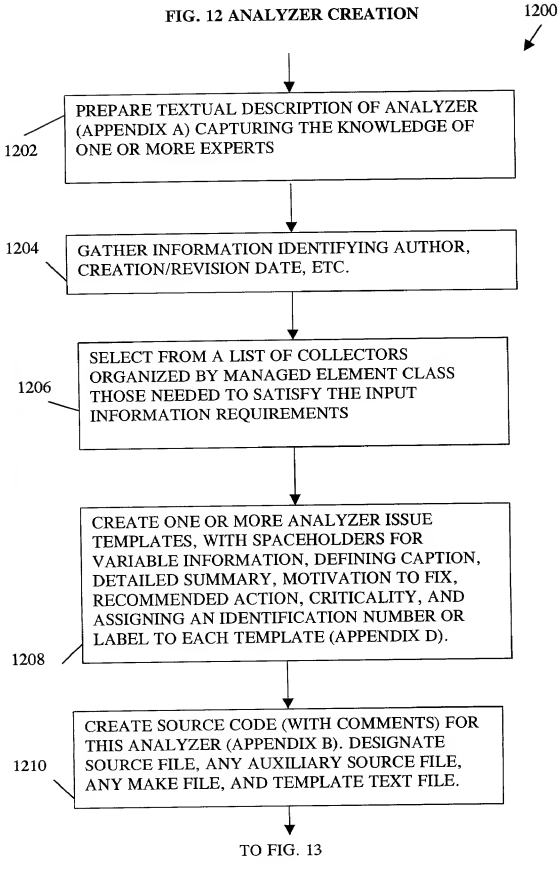


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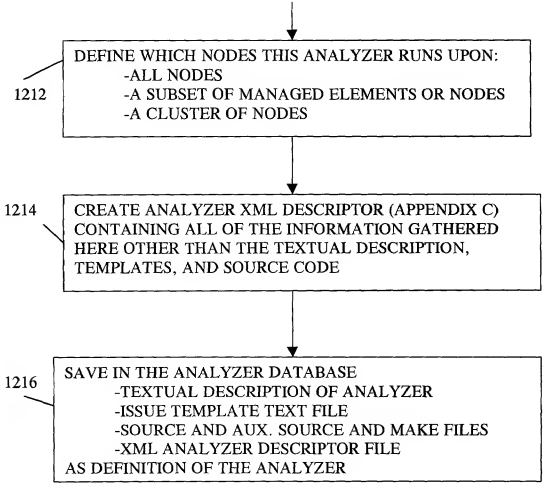
FIG. 13 ANALYZER CREATION (CONT.)



10015199

1400

FIGURE 14 ANALYZER CREATION USER INTERFACE

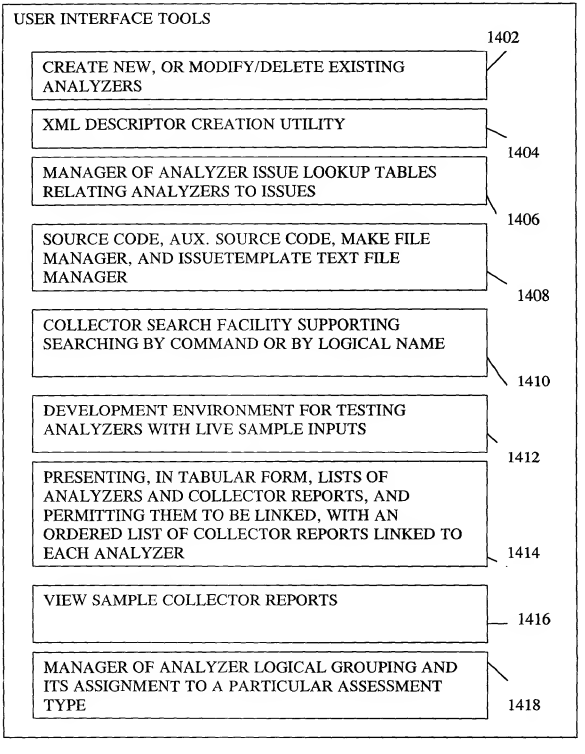


FIG. 15 ANALYZER HARNESS

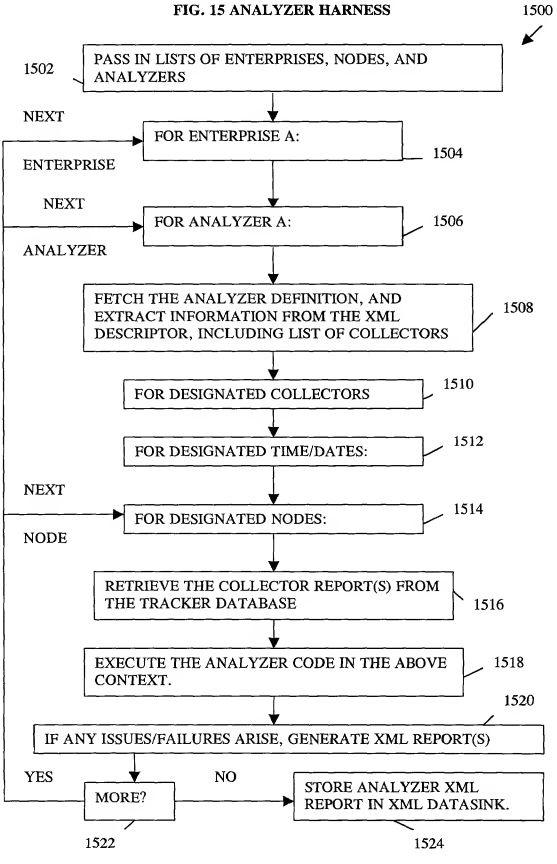


FIG. 16 REPORT TEMPLATE CREATION

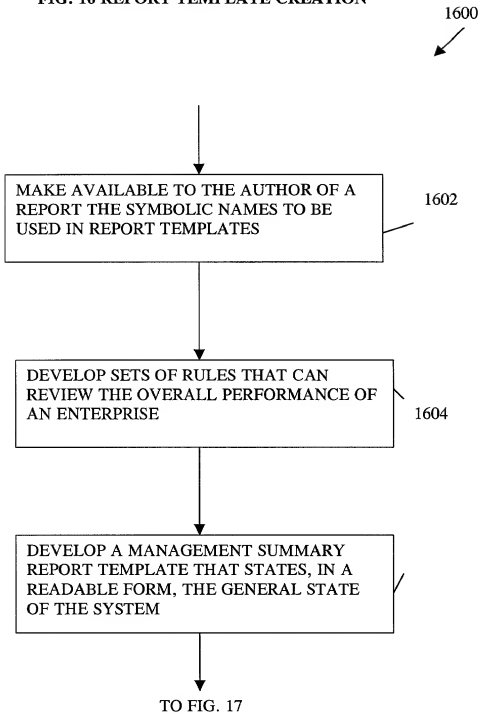


FIG. 17

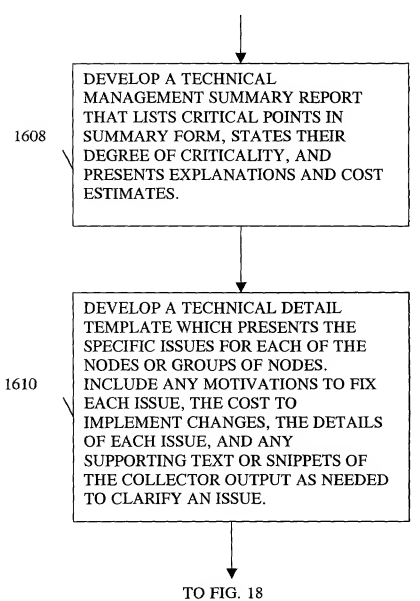

FROM FIG. 16
DEVELOP A TECHNICAL MANAGEMENT SUMMARY REPORT THAT LISTS CRITICAL POINTS IN SUMMARY FORM, STATES THEIR DEGREE OF CRITICALITY, AND PRESENTS EXPLANATIONS AND COST ESTIMATES.
1608
DEVELOP A TECHNICAL DETAIL TEMPLATE WHICH PRESENTS THE SPECIFIC ISSUES FOR EACH OF THE NODES OR GROUPS OF NODES. INCLUDE ANY MOTIVATIONS TO FIX EACH ISSUE, THE COST TO IMPLEMENT CHANGES, THE DETAILS OF EACH ISSUE, AND ANY SUPPORTING TEXT OR SNIPPETS OF THE COLLECTOR OUTPUT AS NEEDED TO CLARIFY AN ISSUE.
1610
TO FIG. 18

FIG. 18

FROM FIG. 17

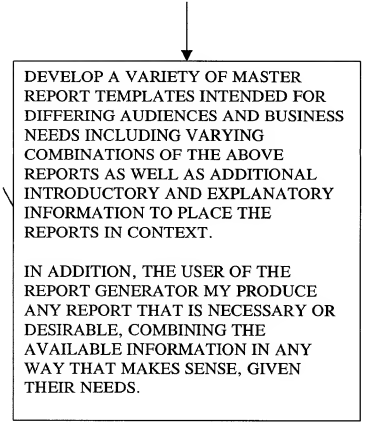


FIG. 19 REPORT GENERATOR

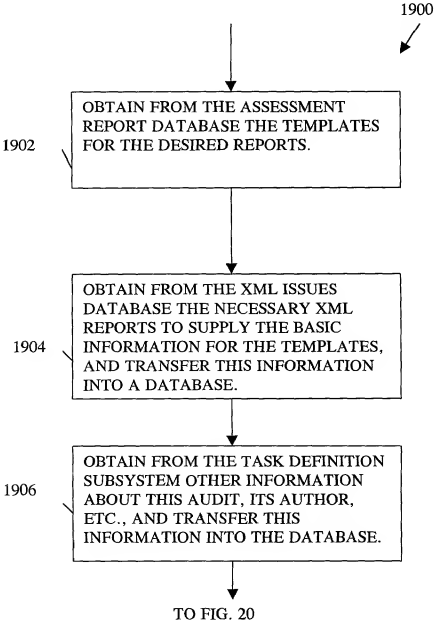


FIG. 20

FROM FIG. 19

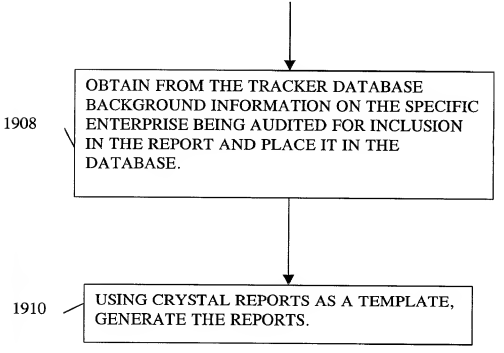


FIG. 21

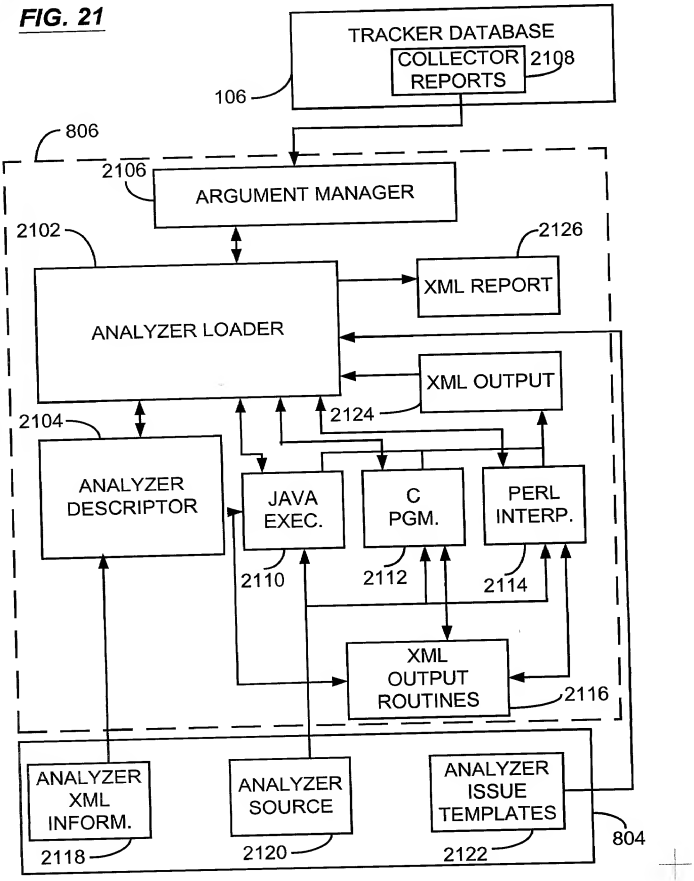

TRACKER DATABASE
COLLECTOR REPORTS
2108
106
806
2106
ARGUMENT MANAGER
2102
2126
XML REPORT
ANALYZER LOADER
XML OUTPUT
2124
2104
ANALYZER DESCRIPTOR
JAVA EXEC.
C PGM.
PERL INTERP.
2110
2112
2114
XML OUTPUT ROUTINES
2116
ANALYZER XML INFORM.
ANALYZER SOURCE
ANALYZER ISSUE TEMPLATES
804
2118
2120
2122

FIG. 22 ANALYZER HARNESS OPERATION

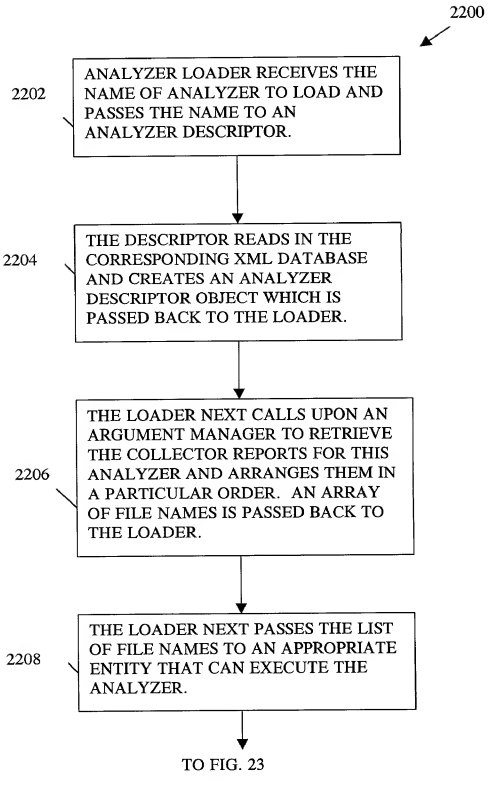


FIG. 23

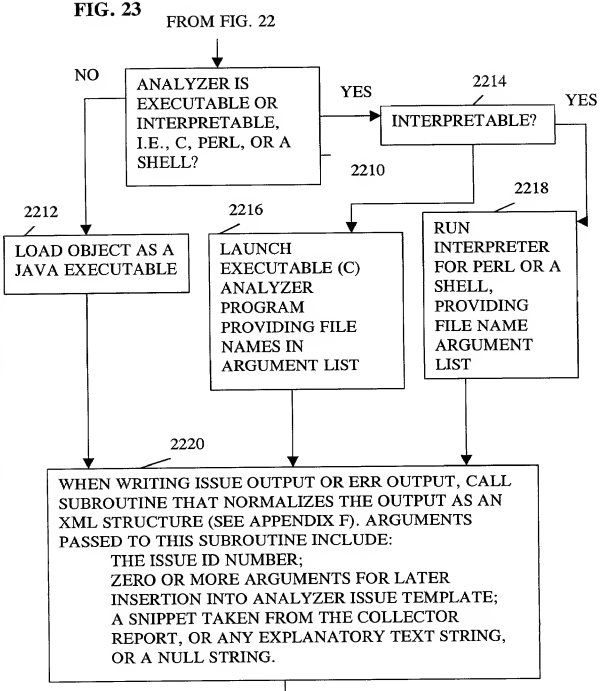

FROM FIG. 22
ANALYZER IS EXECUTABLE OR INTERPRETABLE, I.E., C, PERL, OR A SHELL?
NO
YES
2214
INTERPRETABLE?
YES
2210
2212
LOAD OBJECT AS A JAVA EXECUTABLE
2216
LAUNCH EXECUTABLE (C) ANALYZER PROGRAM PROVIDING FILE NAMES IN ARGUMENT LIST
2218
RUN INTERPRETER FOR PERL OR A SHELL, PROVIDING FILE NAME ARGUMENT LIST
2220
WHEN WRITING ISSUE OUTPUT OR ERR OUTPUT, CALL SUBROUTINE THAT NORMALIZES THE OUTPUT AS AN XML STRUCTURE (SEE APPENDIX F). ARGUMENTS PASSED TO THIS SUBROUTINE INCLUDE:
THE ISSUE ID NUMBER;
ZERO OR MORE ARGUMENTS FOR LATER INSERTION INTO ANALYZER ISSUE TEMPLATE;
A SNIPPET TAKEN FROM THE COLLECTOR REPORT, OR ANY EXPLANATORY TEXT STRING, OR A NULL STRING.
TO FIG. 24

FIG. 24

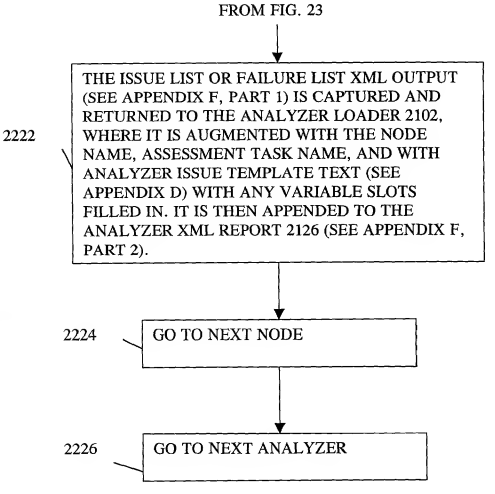

FROM FIG. 23
THE ISSUE LIST OR FAILURE LIST XML OUTPUT (SEE APPENDIX F, PART 1) IS CAPTURED AND RETURNED TO THE ANALYZER LOADER 2102, WHERE IT IS AUGMENTED WITH THE NODE NAME, ASSESSMENT TASK NAME, AND WITH ANALYZER ISSUE TEMPLATE TEXT (SEE APPENDIX D) WITH ANY VARIABLE SLOTS FILLED IN. IT IS THEN APPENDED TO THE ANALYZER XML REPORT 2126 (SEE APPENDIX F, PART 2).
2222
2224
GO TO NEXT NODE
2226
GO TO NEXT ANALYZER

FIG. 25

CONCEPTUAL ASSESSMENT XML HIERARCHY

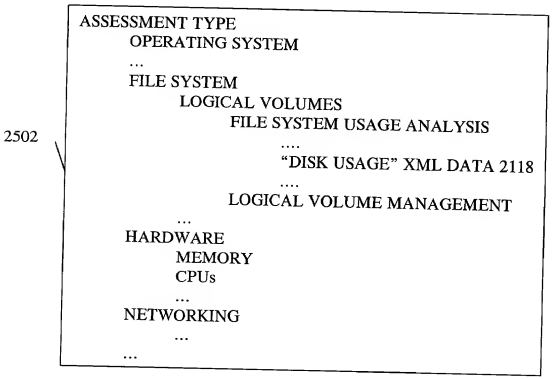
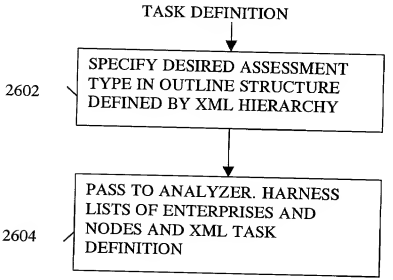



FIG. 26